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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,737	12/27/2001	Sammy J. Graham	8350.1653-00	1968

7590

09/09/2005

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EXAMINER

THOMPSON, ANNETTE M

ART UNIT PAPER NUMBER

2825

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/026,737

Applicant(s)

GRAHAM ET AL.

Examiner

A. M. Thompson

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 227 June 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10-18 is/are allowed.
- 6) ☒ Claim(s) 1-9 and 19-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 June 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Applicants' Amendment to 10/026,737 has been examined. The drawings are amended. Claims 1, 10, 19-22, 25 and 26 are amended. Claims 1-27 are pending.

1. Applicants' amendment and remarks have been fully considered but are not persuasive. The pertinent rejections from the previous office action are incorporated herein.

Drawings

2. The replacement drawing was received on 27 June 2005. The replacement drawings is approved.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-9, 21, 24-27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicants' specification is directed toward a method for designing a system; the system includes an element. Contrary to what Applicants' specification enables, Applicant now claims a method for designing an element or recites a limitation involving establishing guidelines for designing an element and this is not enabled by Applicants' specification. Claims 1-9, 19-27 are rejected under 35 U.S.C. 112, second

Art Unit: 2825

paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Applicants' invention involves a method of designing a system that includes an element, not a method of designing an element or a tool for designing an element. For examination purposes, the claims are interpreted in accordance with Applicants' specification involving designing a system that includes an element.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-9, 19-27 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Applicants' invention involves a method of designing a system that includes an element, not a method of designing an element or a tool for designing an element. For examination purposes, the claims are interpreted in accordance with Applicants' specification involving designing a system that includes an element.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Rejection of claims 1-9 and 27

Art Unit: 2825

8. Claims 1-9 and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Pannala et al. (Pannala), U.S. Pub. No. 2003/0079197. Pannala discloses a method and apparatus to generate a wiring harness layout.

9. Pursuant to claim 1, Pannala discloses [a] method of designing a system including an element wherein the element connects a plurality of components (¶¶ 0004 – 0006)), the method comprising establishing a system design including the plurality of components (¶ 21); generating a diagram associated with the system design (¶¶ 21, 22), wherein the diagram includes the element and the plurality of components; establishing guidelines for designing the element (¶¶ 0022, 0026-29), the guidelines including information reflecting attributes of at least one of the system and the element (¶¶ 18, 22, 26); and automatically determining a routing pattern in the system for the element based on the diagram and the guidelines (¶¶ 0021-0027, see especially ¶ 0027).

10. Pursuant to claim 2, wherein the element includes one or more connections (¶0018), the determining a routing pattern includes the steps of determining one or more sets of one or more connections that can be bundled (¶ 0019); and determining a routing pattern in the element for each bundle (¶ 0020).

11. Pursuant to claim 3, further including receiving one or more revised guidelines for designating the structure and determining a revised routing pattern in the system for the element based on the diagram and the revised guidelines (¶ 0038).

12. Pursuant to claim 4, further including providing a drawing illustration the structure and the determined routing patterns (¶¶ 0018, 0021, 0022).

Art Unit: 2825

13. Pursuant to claim 5, wherein the step of accessing guidelines for designing the system includes accessing guidelines associated with the system design (§§ 0027-0029).
14. Pursuant to claim 6, wherein accessing guidelines for designing the system includes accessing guidelines associated with the plurality of components and the elements (§§ 0027-0029).
15. Pursuant to claim 7, further including automatically providing information about the designed system (§ 0039).
16. Pursuant to claim 8, wherein automatically providing information includes the step of providing at least one of: a three dimensional drawing of the structure; a two dimensional drawing of the structure; a list of components; and a bill of material associated with at least one of the system, the element, and the components (§ 0021).
17. Pursuant to claim 9, wherein the element includes a harness (§§ 0004, 0006, 0030).
18. Pursuant to claim 27, which recites [a] method for designing an element wherein the element connects a plurality of components (§§ 0004 – 0006)), the method comprising establishing a system design including the plurality of components (§ 21); generating a diagram associated with the system design (§§ 21, 22), wherein the diagram includes the element and the plurality of components; establishing guidelines for designing the element (§§ 0022, 0026-29), the guidelines including information reflecting a geometry of the system (§§ 18, 22, 26); and automatically determining a

Art Unit: 2825

routing pattern in the system for the element based on the diagram and the guidelines (§§ 0021-0027, see especially § 0027).

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Rejection of claim 24

20. Claim 24 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Pannala et al. (Pannala), U.S. Pub. No. 2003/0079197. Pannala discloses a method and apparatus to generate a wiring harness layout including establishing guidelines for designing the system. However, Pannala does not explicitly disclose prompting a user to answer one or more questions in establishing the guidelines. Nevertheless, Pannala's use of a user interface with input and output devices suggests the possibility of a system prompt and a user response or entry as could only be accomplished through the use of a terminal. Therefore, it would have been obvious to one of ordinary skill in the art at the time of Applicants' invention that establishing guidelines may be created through system prompt/ user input.

21. Pursuant to claim 24, wherein establishing guidelines for designing the system includes prompting a user to answer one or more questions (§§ 0041-0043).

Allowable Subject Matter

22. Claims 10-18 are allowed.

Art Unit: 2825

23. The following is a statement of reasons for the indication of allowable subject matter: Pannala does not disclose *establishing guidelines that includes recommendations for routing the element in a system structure.*

Response to Remarks

24. Applicants' previous amendment introduced rejections under the first and second paragraphs of 35 USC 112. With this amendment, Applicants have further exacerbated the 35 USC 112 issues instead of obviating them. If the rejections were unclear, Examiner would have been receptive to an interview prior to a final rejection, rather than unnecessarily prolonging prosecution.

25. Now, with respect to the 35 USC 112 rejections, Applicants' specification discloses at paragraph [06] a method for designing a system including an element, wherein the element connects a plurality of components. Further along in Applicants' specification at paragraph [06] discloses that "Guidelines for designing the structure are established." Applicants' claims have nothing to do with what Applicants specification discloses. First of all, Applicants amend the claims to recite "establishing guidelines for designing the element." Where is this claim limitation enabled in Applicants' specification? Then, to compound the problem, Applicants further amend the claims to recite "a method of designing an element." While the wherein clause of "wherein the element connects a plurality of components in a system" is accurate, the recitation of "method designing an element" is incorrect because it is not enabled by Applicants' specification. Therefore, Applicants must either remove or rephrase this claim terminology. Examiner is well-apprieved of the test for enablement, having developed

Art Unit: 2825

training slides on the subject matter. Examiner is unsure of how much more evidence Applicants require in order to correctly amend their claims to overcome the 35 USC 112, first paragraph rejection.

26. As previously stated in the non-final office action, Pannala does not disclose *establishing guidelines that includes recommendations for routing the element in a system structure*. Applicant is encouraged to incorporate this allowable feature into the claim language and work on obviating the n 35 USC 112 rejections and thereby place this application in a condition for allowance.

Conclusion

27. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2825

28. Any inquiry concerning this communication or earlier communications should be directed to Examiner A.M. Thompson whose telephone number is (571) 272-1909. The Examiner can usually be reached Monday thru Friday from 8:00 a.m. to 4:30 p.m..

29. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

30. Responses to this action should be mailed to the appropriate mail stop:

Mail Stop _____

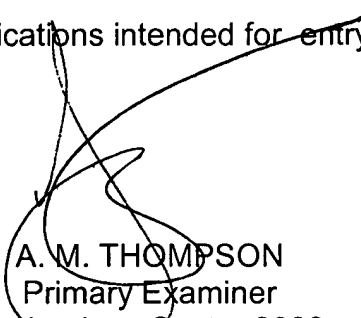
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